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HICKS' **BUILDING ESTIMATOR**

WITH
Handy and Valuable
Information

For the Estimator



I. P. HICKS

Omaha, Neb.

1917

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Handy and Valuable
Information
For the Estimator

PREFACE

The object of this little book is to furnish the estimator with a handy reference as a guide to insure the making of accurate and complete estimates.

The different items that enter into ordinary building construction are numbered by the hundreds, and it is safe to say that not one bill in forty is made out without more or less omissions. The items in this book are arranged with a view to eliminating mistakes from this source.

The cost record section is particularly valuable as it enables the estimator to keep a complete description of every job, showing in a concise form the estimated cost, the actual cost, profit or loss on every job, or any part of it, making a handy and ready reference which should prove of great value to the estimator. Should a job be estimated too low or too high, this record will show just exactly where it took place. The value of having such complete descriptions and records of work must be apparent to all who will give the matter a few moments of their time and consideration.

I. P. HICKS, Omaha, Neb.

I. P. HICKS

Omaha, Neb.

1917

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HICKS' BUILDING ESTIMATOR

HOW TO USE THE BOOK

In the making out of bills for material, it is a well-known fact that many mistakes occur from omissions. The items that enter into a bill of material for the construction of an ordinary building are very many, and very few estimates are made in which the estimator does not overlook and omit some of the items. Every item omitted from the estimate means more or less loss, delay, and annoyance.

It is the object of this book to eliminate as far as possible all manner of such mistakes. The lists of items on pages 3 to 7 comprise about everything entering into ordinary building construction, arranged in a concise form for ready reference.

These items are classed under the following headings: Masonry, Lumber, Mill Work, Carpenter Work, Hardware, Tin and Sheet Metal, and Structural Iron. In each of these classes every item is preceded by a letter and number. The letter indicates the class to which the item belongs and the number indicates the part of the building for which the item is figured. It is optional with the estimator whether he uses these letters and numbers or not in listing the material, but when once understood their use will be found a great convenience. It often happens that a short time after a job is figured, the contractor is not able to tell for what part of the building certain things were figured. For example, suppose you have three lengths of joists for the first floor, you would write it down as follows:

L 7, 16 2x8x18 feet.

L 7, 10 2x8x14 feet.

L 7, 22 2x8x12 feet.

The letter and number indicates that these were all figured for first floor joists, and such a thing as not knowing what and where you figured them for need never occur, no matter how long since you figured the bill. It works the same on all items and is an easy and safe system for keeping things from being mixed and misplaced on the job. It is a real safeguard against cutting up the wrong material for some place in the building, a thing that happens frequently. These letters and numbers we call the index number. They indicate just what each item was figured for and there can be no mistake if anything like ordinary care is followed in making out the bills.

No special form of blank or billhead is required for using this system. The regular stock billhead such as is in common use everywhere will meet all the requirements. Just write the index number in the first column on the left hand side, and all trouble in determining what things were figured for is over with for all time to come.

The following pages are specially designed to assist the estimator in making accurate and complete estimates. There are three pages of items with blank space for filling in all the necessary data for making the estimate. Opposite each page of items is a page for additional memoranda, sketches, etc., so that if a job calls for something not in the printed list, you have a convenient place to list it in close connection with the other items to which it belongs. This gives you a chance to make your estimating data complete for each job.

In estimating, go over the plans carefully and fill in the forms with all the data you will need for making the estimate. You will find that this will greatly facilitate the work of estimating and will insure greater accuracy. Much time is saved in estimating by this method, because you do not have to stop and look the plans over every time you want a bit of information as regards size, quantity, etc., on the different items. Besides this, you have a complete record of all the essential points from which you made your estimates.

Following this are two pages for the complete estimate with space to enter the estimated cost on each and every part of the work. Space is also provided to enter the actual cost, the profit, and the loss when these are found, thus making a complete and valuable record of the job. The arrangement gives the most complete record of useful information and data connected with your jobs that it is possible to obtain. Your work estimated in this manner will lead to efficiency in estimating and to profit on the jobs.

RAFTER TABLE

Pitch of Roof (Inches)	Length Com. R. 1 Ft. run (Feet)	Length Hip or Val. 1 Ft. run (Feet)	Pitch of Roof (Inches)	Length Com. R. 1 Ft. run (Feet)	Length Hip or Val. 1 Ft. run (Feet)
4x12.....	1.06	1.45	10x12	1.30	1.64
5x12.....	1.08	1.48	11x12	1.36	1.69
6x12.....	1.12	1.50	12x12	1.42	1.73
7x12.....	1.16	1.53	12x15	1.60	1.89
8x12.....	1.20	1.56	12x16	1.67	1.94
9x12.....	1.25	1.60	12x18	1.80	2.06

To find the length of rafter for any length of run, multiply the run of common rafter by the figures corresponding to the pitch of roof; the product will be the length of rafter in feet and a decimal part of a foot. For hips and valleys use the figures given for hips or valleys. Always figure the run to include the projection if the rafters project over the building. For example, take the roof of a building 24 feet wide with 1 foot projection; this would make the run of common rafter 13 feet. Say the roof has a pitch of 7 inches rise to the foot.

13x1.16 equals 15.08 feet, length of common rafter.

13x1.53 equals 19.89 feet, length of hip or valley rafter.

Thus we find that it will require 16-foot lumber for common rafters and 20 foot for hips or valleys. Should you want to reduce the decimal part of a foot to inches, multiply just the decimal part by 12, because 12 inches make 1 foot, thus:

.09x12 equals .96, nearly 1 inch.

.89x12 equals 10.68, nearly $10\frac{5}{8}$ inches.

The figures given to find the length of common rafter can also be used to find the amount of sheathing required to cover the roof. Suppose the building to be 24x30 feet with 1 foot projection and a roof of 7x12 pitch, then

26x32x1.16 equals 965.12 feet, the amount of sheathing required to cover the roof. After the last multiplication the decimal can be dropped, making even 965 feet. The rule will work regardless of the shape of roof, but if there are dormers or other projecting cornices, the amount of these projections must be added.

Excavating and Masonry

M 1 Excavating	M 12 Terra Cotta
M 2 Brick footings	M 13 Chimneys
M 3 Brick work	M 14 Fire places
M 4 Concrete footings	M 15 Flue lining
M 5 Cement work	M 16 Plastering
M 6 Cement walks	M 17 Stucco plastering
M 7 Cement stone	M 18 Cisterns
M 8 Chimney caps	M 19 Cesspools
M 9 Stone work	M 20 Catch basins
M 10 Cut stone	M 21 Tile floors
M 11 Building tile	M 22 Composition floors

Lumber Items

L 1	Floor girders	L 29	Bridging
L 2	Sills	L 30	Furring
L 3	Posts	L 31	Cellar stairs
L 4	Main girders	L 32	Purlin timbers
L 5	Tie girts	L 33	Truss timbers
L 6	Basement joists	L 34	Lath
L 7	First floor joists	L 35	Outside sheathing
L 8	Second floor joists	L 36	Rough floors
L 9	Third floor joists	L 37	Finish floors
L 10	Attic joists	L 38	Attic floor
L 11	Ceiling joists	L 39	Roof sheathing
L 12	Collar beams	L 40	Shingles
L 13	Porch joists	L 41	Dimension shingles
L 14	Porch beams	L 42	Beveled siding
L 15	Porch ceilings	L 43	Bungalow siding
L 16	Porch rafters	L 44	Drop siding
L 17	Porch rail studding	L 45	Stock board siding
L 18	Porch column studs	L 46	Battens
L 19	Outside studding	L 47	Porch floor
L 20	Gable studding	L 48	Porch ceiling
L 21	Dormer studding	L 49	Room ceiling
L 22	Partition studding	L 50	Cornice ceiling
L 23	Plates	L 51	Wainscoting
L 24	Common rafters	L 52	Building paper
L 25	Hip rafters	L 53	Deadening felt.
L 26	Valley rafters	L 54	Finish, $\frac{1}{2}$ " and $\frac{7}{8}$ "
L 27	Ribbon boards	L 55	Finish, $1\frac{1}{8}$ " and $1\frac{3}{8}$ "
L 28	Braces	L 56	Finish, $1\frac{3}{4}$ "

Mill Work, Outside Finish

MW 1	Porch columns	MW 12	Crown molding
MW 2	Porch rail	MW 13	Bed molding
MW 3	Porch frieze rail	MW 14	Panel molding
MW 4	Porch newels	MW 15	Band molding
MW 5	Porch balusters	MW 16	Watertable
MW 6	Porch spindles	MW 17	Cove molding
MW 7	Porch lattice	MW 18	Quarter round
MW 8	Brackets	MW 19	Cellar window frames
MW 9	Gable brackets	MW 20	Cellar sash
MW 10	Gable ornaments	MW 21	Cellar door frames
MW 11	Verge boards	MW 22	Cellar doors

MW 23 Door frames
 MW 24 Window frames
 MW 25 Gable frames
 MW 26 Tower frames
 MW 27 Windows

MW 28 Sash windows
 MW 29 Transom sash
 MW 30 Blinds
 MW 31 Skylights
 MW 32 Cresting and finlais

Mill Work, Inside Finish

MW 33 Front doors
 MW 34 Side doors
 MW 35 Rear doors
 MW 36 Sliding doors
 MW 37 Folding doors
 MW 38 Main doors
 MW 38½ Mirror doors
 MW 39 Closet doors
 MW 40 Cupboard doors
 MW 41 Door jambs
 MW 42 Plinth blocks
 MW 43 Corner blocks
 MW 44 Cased openings
 MW 45 Colonnade openings
 MW 46 Casings
 MW 47 Head casing
 MW 48 Cap mold
 MW 49 Fillet
 MW 50 Embossed molding
 MW 51 Window stool
 MW 52 Apron
 MW 53 Window stop
 MW 54 Door stop
 MW 55 Room cornice
 MW 56 Beam ceiling
 MW 57 Inside base
 MW 58 Base molding

MW 59 Floor molding
 MW 60 Wainscoting cap
 MW 61 Chair rail
 MW 62 Plate rail
 MW 63 Band molding
 MW 64 Panel molding
 MW 65 Picture molding
 MW 66 Thresholds
 MW 67 Corner beads
 MW 68 Cellar stairs
 MW 69 Main stairs
 MW 70 Rear stairs
 MW 71 Attic stairs
 MW 72 China closet
 MW 73 Medicine cabinet
 MW 74 Sideboards
 MW 75 Buffets
 MW 76 Pantry cases
 MW 77 Linen closet
 MW 78 Book cases
 MW 79 Grille work
 MW 80 Mantels
 MW 81 Seats
 MW 82 Storm sash
 MW 83 Storm doors
 MW 84 Screens

Carpenter Work, Outside

C 1 Framing floors
 C 2 Laying rough floors
 C 3 Framing ceilings
 C 4 Laying ceiling
 C 5 Framing outside walls

C 6 Sheathing outside walls
 C 7 Siding outside walls
 C 8 Shingling outside walls
 C 9 Framing roofs
 C 10 Sheathing roofs

C 11 Shingling roofs	C 23 Other porch cornice
C 12 Porch roofs	C 24 Gable finish
C 13 Metal roofs	C 25 Front porch
C 14 Composition roofs	C 26 Other porches
C 15 Outside base	C 27 Porch steps
C 16 Corner casing	C 28 Outside stairs
C 17 Belt course casings	C 29 Setting frames
C 18 Main cornice	C 30 Setting partitions
C 19 Gable cornice	C 31 Bridging
C 20 Dormer cornice	C 32 Furring
C 21 Bay window cornice	C 33 Grounds
C 22 Front porch cornice	C 34 Cutting

Carpenter Work, Inside Finishing

C 35 Cellar windows	C 58 Picture molding
C 36 Cellar doors	C 59 Chair rail
C 37 Coal bin	C 60 Plate rail
C 38 Vegetable cellar	C 61 Wainscoting
C 39 Laying finish flooring	C 62 Paneling
C 40 Scraping finish floor	C 63 Drawers and cases
C 41 Front doors	C 64 Cupboards
C 42 Side Doors	C 65 Pantry shelves
C 43 Grade entrance doors	C 66 China closet
C 44 Sliding doors	C 67 Hook strips
C 45 Folding doors	C 68 Closet shelves
C 46 Double acting doors	C 69 Medicine cabinet
C 47 Common doors	C 70 Front stairs
C 48 Cupboard doors	C 71 Rear stairs
C 49 Main windows	C 72 Attic stairs
C 50 Sash windows	C 73 Cellar stairs
C 51 Gable windows	C 74 Clothes chute
C 52 Attic windows	C 75 Linen closet
C 53 Casings	C 76 Sideboards
C 54 Cased openings	C 77 Buffets
C 55 Inside base	C 78 Book cases
C 56 Room cornice	C 79 Seats
C 57 Beam ceiling	C 80 Mantels

Hardware Items

H 1 Nails, various sizes	H 16 Sash cord
H 2 Brads	H 17 Sash locks
H 3 Screws	H 18 Sash lifts
H 4 Door butts	H 19 Sash weights
H 5 Cupboard butts	H 20 Sash balances
H 6 Cupboard catches	H 21 Cellar sash sets
H 7 Front door locks	H 22 Shelf brackets
H 8 Outside door locks	H 23 Wardrobe hooks
H 9 Inside door locks	H 24 Drawer pulls
H 10 Sliding door locks	H 25 Door stops
H 11 Door bolts	H 26 Door checks
H 12 Door hangers	H 27 Blind Hinges
H 13 Spring hinges	H 28 Screen door sets
H 14 Transom lifts	H 29 Storm sash hangers
H 15 Sash pulleys	H 30 Sandpaper

Tin and Sheet Metal

T 1 Roofing tin	T 9 Elbows
T 2 Tin window caps	T 10 Valley tin
T 3 Steel roofing	T 11 Flashing
T 4 Steel siding	T 12 Hip shingles
T 5 Steel ceiling	T 13 Ridge roll
T 6 Steel wainscoting	T 14 Hip finish
T 7 Gutters	T 15 Cresting
T 8 Downspouts	T 16 Finials

Structural Iron

S 1 Steel beams	S 13 Anchors
S 2 Channels	S 14 Joist hangers
S 3 L's	S 15 Straps
S 4 T's	S 16 Bolts and washers
S 5 Lintels	S 17 Iron railing
S 6 Columns	S 18 Area grating
S 7 Plates	S 19 Window guards
S 8 Store entrance plates	S 20 Steel shutters
S 9 Post caps	S 21 Wall ties
S 10 Post bases	S 22 Wall plugs
S 11 Truss plates	S 23 Metal sash bars
S 12 Truss rods	S 24 Coal chutes

Ready Reckoner Timber Measure													
Length in Even Feet													
Size	8	10	12	14	16	18	Size	20	22	24	26	28	30
2x4	5 $\frac{1}{3}$	6 $\frac{2}{3}$	8	9 $\frac{1}{3}$	10 $\frac{2}{3}$	12	2x4	13 $\frac{1}{3}$	14 $\frac{2}{3}$	16	17 $\frac{1}{3}$		
2x6	8	10	12	14	16	18	2x6	20	22	24	26	28	
2x8	10 $\frac{2}{3}$	13 $\frac{1}{3}$	16	18 $\frac{2}{3}$	21 $\frac{1}{3}$	24	2x8	26 $\frac{2}{3}$	29 $\frac{1}{3}$	32	34 $\frac{2}{3}$	37 $\frac{1}{3}$	40
2x10	13 $\frac{1}{3}$	16 $\frac{2}{3}$	20	23 $\frac{1}{3}$	26 $\frac{2}{3}$	30	2x10	33 $\frac{1}{3}$	36 $\frac{2}{3}$	40	43 $\frac{1}{3}$	46 $\frac{2}{3}$	50
2x12	16	20	24	28	32	36	2x12	40	44	48	52	56	60
2x14	18 $\frac{2}{3}$	23 $\frac{1}{3}$	28	32 $\frac{2}{3}$	37 $\frac{1}{3}$	42	2x14	46 $\frac{2}{3}$	51 $\frac{1}{3}$	56	60 $\frac{2}{3}$	65 $\frac{1}{3}$	70
2x16	21 $\frac{1}{3}$	26 $\frac{2}{3}$	32	37 $\frac{1}{3}$	42 $\frac{2}{3}$	48	2x16	53 $\frac{1}{3}$	58 $\frac{2}{3}$	64	69 $\frac{1}{3}$	74 $\frac{2}{3}$	80
3x12	24	30	36	42	48	54	3x12	60	66	72	78	84	90
3x14	28	35	42	49	56	63	3x14	70	77	84	91	98	105
3x16	32	40	48	56	64	72	3x16	80	88	96	104	112	120
4x6	16	20	24	28	32	36	4x6	40	44	48	52	56	60
6x6	24	30	36	42	48	54	6x6	60	66	72	78	84	90
6x8	32	40	48	56	64	72	6x8	80	88	96	104	112	120
8x8	42 $\frac{2}{3}$	53 $\frac{1}{3}$	64	74 $\frac{2}{3}$	85 $\frac{1}{3}$	96	8x8	106 $\frac{2}{3}$	117 $\frac{1}{3}$	128	138 $\frac{2}{3}$	149 $\frac{1}{3}$	160
8x10	53 $\frac{1}{3}$	66 $\frac{2}{3}$	80	93 $\frac{1}{3}$	106 $\frac{2}{3}$	120	8x10	133 $\frac{1}{3}$	146 $\frac{2}{3}$	160	173 $\frac{1}{3}$	186 $\frac{2}{3}$	200
10x10	66 $\frac{2}{3}$	83 $\frac{1}{3}$	100	116 $\frac{2}{3}$	133 $\frac{1}{3}$	150	10x10	166 $\frac{2}{3}$	185 $\frac{1}{3}$	200	216 $\frac{2}{3}$	233 $\frac{1}{3}$	250
10x12	80	100	120	140	160	180	10x12	200	220	240	260	280	300
12x12	96	120	144	168	192	216	12x12	240	264	288	312	336	360

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By I. P. HICKS

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I. P. HICKS

Job No. Date

For

Masonry

Excavating, Cu. Yds.....

Main footings, Cu. Ft.....

Other wall footings.....

Chimney and pier footings.....

Main wall dimensions.....

Face wall dimensions.....

Other walls, dimensions.....

Chimneys, lineal Ft.....

Chimney cas.....

Cement floors, Sq. Ft.....

Cement steps, number of.....

Door sills.....

Window sills.....

Coping, lineal Ft.....

Catch basins

Cesspools.....

Stucco plaster, Sq. Yds.....

Plastering, Sq. Yds.....

Carpentry

Size of plan.....

Lineal Ft. around plan.....

Square Ft., first floor.....

Square Ft., second floor.....

Square Ft., attic floor.....

Outside wall, Sq. Ft.....

Deck roofs, Sq. Ft.....

Additional Memoranda, Sketches, etc.

Bay roofs, Sq. Ft.....
Porch roofs, Sq. Ft.....
Front porch, size.....
Other porches.....
Porch columns, front.....
Other porch columns.....
Porch newels, number.....
Rail, lineal Ft.....
Balusters, size and number.....
Lattice.....
Steps.....
Outside base, Lin. Ft.....
Corner boards, Lin. Ft.....
Belt course, Lin. Ft.....
Main Cornice, Lin. Ft.....
Dormer cornice, Lin. Ft.....
Bay window cornice, Lin. Ft.....
Porch cornice, Lin. Ft.....
Verge boards, Lin. Ft.....
Brackets, gable, number.....
Brackets, bay.....
Cellar window frame.....
Outside cellar door frames.....
Inside cellar door frames.....
Outside flap doors.....
Cellar steps, outside.....
Cellar steps, inside.....
Window frames.....
Sash frames.....
Attic frames.....

Additional Memoranda, Sketches, etc.

A series of horizontal dashed lines for writing.

Outside door frames.....
Main doors.....
Mirror doors.....
Closet doors.....
Sliding doors.....
Folding doors.....
Attic doors.....
Cased openings.....
Collonade openings.....
Inside base, Lin. Ft.....
Picture molding.....
Plate rail.....
Chair rail.....
Room cornice.....
Beam ceiling.....
Panels.....
Seats.....
Main stairs.....
Rear stairs.....
Attic stairs.....
Cellar stairs.....
Medicine cabinets.....
China closets.....
Linen closet.....
Pantry cases.....
Flour bins.....
Cupboards.....
Book cases.....
Wainscoting.....
Clothes chute.....
Mantels.....

Additional Memoranda, Sketches, etc.

Handwriting practice lines consisting of horizontal dashed lines.

Job No.....Date.....

For.....

The Complete Estimate

Material	Description	Est. Cost	
Excavating.....			
Cistern and cesspool.			
Cementing.....			
Stone work.....			
Mason work.....			
Chimneys.....			
Stucco work.....			
Lumber.....			
Mill work.....			
Buffets, sideboards..			
Mantels.....			
Carpenter labor....			
Nails and hardware.			
Tin and sheet metal.			
Structural iron.....			
Lath and plastering.			
Plumbing and sewer.			
Gas fitting.....			
Electric wiring.....			
Terra cotta.....			
Tile floors.....			
Roofing.....			
Painting.....			
Heating Plant.....			
Incidentals, 5%....			
Total estimate...			

Job No.....Date.....

For.....

Masonry

Excavating, Cu. Yds.....

Main footings, Cu. Ft.....

Other wall footings.....

Chimney and pier footings.....

Main wall dimensions.....

Face wall dimensions.....

Other walls, dimensions.....

Chimneys, lineal Ft.....

Chimney caps.....

Cement floors, Sq. Ft.....

Cement steps, number of.....

Door sills.....

Window sills.....

Coping, lineal Ft.....

Catch basins.....

Cesspools.....

Stucco plaster, Sq. Yds.....

Plastering, Sq. Yds.....

Carpentry

Size of plan.....

Lineal Ft. around plan.....

Square Ft., first floor.....

Square Ft., second floor.....

Square Ft., attic floor.....

Outside wall, Sq. Ft.....

Deck roofs, Sq. Ft.....

Additional Memoranda, Sketches, etc.

Handwriting practice lines consisting of 20 horizontal dashed lines.

Bay roofs, Sq. Ft.....
Porch roofs, Sq. Ft.....
Front porch, size.....
Other porches.....
Porch columns, front.....
Other porch columns.....
Porch newels, number.....
Rail, lineal Ft.....
Balusters, size and number.....
Lattice.....
Steps.....
Outside base, Lin. Ft.....
Corner boards, Lin. Ft.....
Belt course, Lin. Ft.....
Main Cornice, Lin. Ft.....
Dormer cornice, Lin. Ft.....
Bay window cornice, Lin. Ft.....
Porch cornice, Lin. Ft.....
Verge boards, Lin. Ft.....
Brackets, gable, number.....
Brackets, bay.....
Cellar window frame.....
Outside cellar door frames.....
Inside cellar door frames.....
Outside flap doors.....
Cellar steps, outside.....
Cellar steps, inside.....
Window frames.....
Sash frames.....
Attic frames.....

Additional Memoranda, Sketches, etc.

Outside door frames.....
Main doors.....
Mirror doors.....
Closet doors.....
Sliding doors.....
Folding doors.....
Attic doors.....
Cased openings.....
Collonade openings.....
Inside base, Lin. Ft.....
Picture molding.....
Plate rail.....
Chair rail.....
Room cornice.....
Beam ceiling.....
Panels.....
Seats.....
Main stairs.....
Rear stairs.....
Attic stairs.....
Cellar stairs.....
Medicine cabinets.....
China closets.....
Linen closet.....
Pantry cases.....
Flour bins.....
Cupboards.....
Book cases.....
Wainscoting.....
Clothes chute.....
Mantels.....

Additional Memoranda, Sketches, etc.

Handwriting practice lines consisting of 25 horizontal dashed lines.

Job No. Date

For

The Complete Estimate

Material	Description	Est. Cost	
Excavating			
Cistern and cesspool.			
Cementing			
Stone work			
Mason work			
Chimneys			
Stucco work			
Lumber			
Mill work			
Buffets, sideboards. .			
Mantels			
Carpenter labor			
Nails and hardware .			
Tin and sheet metal.			
Structural iron			
Lath and plastering .			
Plumbing and sewer.			
Gas fitting			
Electric wiring			
Terra cotta			
Tile floors			
Roofing			
Painting			
Heating Plant			
Incidentals, 5%			
Total estimate			

Job No.....Date.....

For.....

Masonry

Excavating, Cu. Yds.....

Main footings, Cu. Ft.....

Other wall footings.....

Chimney and pier footings.....

Main wall dimensions.....

Face wall dimensions.....

Other walls, dimensions.....

Chimneys, lineal Ft.....

Chimney caps.....

Cement floors, Sq. Ft.....

Cement steps, number of.....

Door sills.....

Window sills.....

Coping, lineal Ft.....

Catch basins.....

Cesspools.....

Stucco plaster, Sq. Yds.....

Plastering, Sq. Yds.....

Carpentry

Size of plan.....

Lineal Ft. around plan.....

Square Ft., first floor.....

Square Ft., second floor.....

Square Ft., attic floor.....

Outside wall, Sq. Ft.....

Deck roofs, Sq. Ft.....

Additional Memoranda, Sketches, etc.

Handwriting practice lines consisting of 20 horizontal dashed lines.

Bay roofs, Sq. Ft.....
Porch roofs, Sq. Ft.....
Front porch, size.....
Other porches.....
Porch columns, front.....
Other porch columns.....
Porch newels, number.....
Rail, lineal Ft.....
Balusters, size and number.....
Lattice.....
Steps.....
Outside base, Lin. Ft.....
Corner boards, Lin. Ft.....
Belt course, Lin. Ft.....
Main Cornice, Lin. Ft.....
Dormer cornice, Lin. Ft.....
Bay window cornice, Lin. Ft.....
Porch cornice, Lin. Ft.....
Verge boards, Lin. Ft.....
Brackets, gable, number.....
Brackets, bay.....
Cellar window frame.....
Outside cellar door frames.....
Inside cellar door frames.....
Outside flap doors.....
Cellar steps, outside.....
Cellar steps, inside.....
Window frames.....
Sash frames.....
Attic frames.....

Additional Memoranda, Sketches, etc.

Handwriting practice lines consisting of 20 horizontal dashed lines.

Outside door frames.....
Main doors.....
Mirror doors.....
Closet doors.....
Sliding doors.....
Folding doors.....
Attic doors.....
Cased openings.....
Collonade openings.....
Inside base, Lin. Ft.....
Picture molding.....
Plate rail.....
Chair rail.....
Room cornice.....
Beam ceiling.....
Panels.....
Seats.....
Main stairs.....
Rear stairs.....
Attic stairs.....
Cellar stairs.....
Medicine cabinets.....
China closets.....
Linen closet.....
Pantry cases.....
Flour bins.....
Cupboards.....
Book cases.....
Wainscoting.....
Clothes chute.....
Mantels.....

Additional Memoranda, Sketches, etc.

A series of horizontal dashed lines for writing.

Job No. Date

For

The Complete Estimate

Material	Description	Est. Cost	
Excavating			
Cistern and cesspool.			
Cementing			
Stone work			
Mason work			
Chimneys			
Stucco work			
Lumber			
Mill work			
Buffets, sideboards. .			
Mantels			
Carpenter labor			
Nails and hardware . .			
Tin and sheet metal . .			
Structural iron			
Lath and plastering . .			
Plumbing and sewer. . .			
Gas fitting			
Electric wiring			
Terra cotta			
Tile floors			
Roofing			
Painting			
Heating Plant:			
Incidentals, 5%			
Total estimate			

Job No.....Date.....

For.....

Masonry

Excavating, Cu. Yds.....

Main footings, Cu. Ft.....

Other wall footings.....

Chimney and pier footings.....

Main wall dimensions.....

Face wall dimensions.....

Other walls, dimensions.....

Chimneys, lineal Ft.....

Chimney caps.....

Cement floors, Sq. Ft.....

Cement steps, number of.....

Door sills.....

Window sills.....

Coping, lineal Ft.....

Catch basins.....

Cesspools.....

Stucco plaster, Sq. Yds.....

Plastering, Sq. Yds.....

Carpentry

Size of plan.....

Lineal Ft. around plan.....

Square Ft., first floor.....

Square Ft., second floor.....

Square Ft., attic floor.....

Outside wall, Sq. Ft.....

Deck roofs, Sq. Ft.....

Additional Memoranda, Sketches, etc.

Bay roofs, Sq. Ft.

Porch roofs, Sq. Ft.

Front porch, size

Other porches

Porch columns, front

Other porch columns

Porch newels, number

Rail, lineal Ft.

Balusters, size and number

Lattice

Steps

Outside base, Lin. Ft.

Corner boards, Lin. Ft.

Belt course, Lin. Ft.

Main Cornice, Lin. Ft.

Dormer cornice, Lin. Ft.

Bay window cornice, Lin. Ft.

Porch cornice, Lin. Ft.

Verge boards, Lin. Ft.

Brackets, gable, number

Brackets, bay

Cellar window frame

Outside cellar door frames

Inside cellar door frames

Outside flap doors

Cellar steps, outside

Cellar steps, inside

Window frames

Sash frames

Attic frames

Additional Memoranda, Sketches, etc.

Outside door frames.....
Main doors.....
Mirror doors.....
Closet doors.....
Sliding doors.....
Folding doors.....
Attic doors.....
Cased openings.....
Collonade openings.....
Inside base, Lin. Ft.....
Picture molding.....
Plate rail.....
Chair rail.....
Room cornice.....
Beam ceiling.....
Panels.....
Seats.....
Main stairs.....
Rear stairs.....
Attic stairs.....
Cellar stairs.....
Medicine cabinets.....
China closets.....
Linen closet.....
Pantry cases.....
Flour bins.....
Cupboards.....
Book cases.....
Wainscoting.....
Clothes chute.....
Mantels.....

Additional Memoranda, Sketches, etc.

Job No. Date

For

The Complete Estimate

Material	Description	Est. Cost	
Excavating			
Cistern and cesspool.			
Cementing			
Stone work			
Mason work			
Chimneys			
Stucco work			
Lumber			
Mill work			
Buffets, sideboards. .			
Mantels			
Carpenter labor			
Nails and hardware . .			
Tin and sheet metal . .			
Structural iron			
Lath and plastering . .			
Plumbing and sewer. . .			
Gas fitting			
Electric wiring			
Terra cotta			
Tile floors			
Roofing			
Painting			
Heating Plant			
Incidentals, 5%			
Total estimate			

The Complete Estimate

[illegible]

Job No. Date

For

Masonry

Excavating, Cu. Yds

Main footings, Cu. Ft

Other wall footings

Chimney and pier footings

Main wall dimensions

Face wall dimensions

Other walls, dimensions

Chimneys, lineal Ft

Chimney caps

Cement floors, Sq. Ft

Cement steps, number of

Door sills

Window sills

Coping, lineal Ft

Catch basins

Cesspools

Stucco plaster, Sq. Yds

Plastering, Sq. Yds

Carpentry

Size of plan

Lineal Ft. around plan

Square Ft., first floor

Square Ft., second floor

Square Ft., attic floor

Outside wall, Sq. Ft

Deck roofs, Sq. Ft

Additional Memoranda, Sketches, etc.

A series of horizontal dashed lines for writing.

Bay roofs, Sq. Ft.....
Porch roofs, Sq. Ft.....
Front porch, size.....
Other porches.....
Porch columns, front.....
Other porch columns.....
Porch newels, number.....
Rail, lineal Ft.....
Balusters, size and number.....
Lattice.....
Steps.....
Outside base, Lin. Ft.....
Corner boards, Lin. Ft.....
Belt course, Lin. Ft.....
Main Cornice, Lin. Ft.....
Dormer cornice, Lin. Ft.....
Bay window cornice, Lin. Ft.....
Porch cornice, Lin. Ft.....
Verge boards, Lin. Ft.....
Brackets, gable, number.....
Brackets, bay.....
Cellar window frame.....
Outside cellar door frames.....
Inside cellar door frames.....
Outside flap doors.....
Cellar steps, outside.....
Cellar steps, inside.....
Window frames.....
Sash frames.....
Attic frames.....

Additional Memoranda, Sketches, etc.

Handwriting practice lines consisting of horizontal dotted lines.

Outside door frames.....
Main doors.....
Mirror doors.....
Closet doors.....
Sliding doors.....
Folding doors.....
Attic doors.....
Cased openings.....
Collonade openings.....
Inside base, Lin. Ft.....
Picture molding.....
Plate rail.....
Chair rail.....
Room cornice.....
Beam ceiling.....
Panels.....
Seats.....
Main stairs.....
Rear stairs.....
Attic stairs.....
Cellar stairs.....
Medicine cabinets.....
China closets.....
Linen closet.....
Pantry cases.....
Flour bins.....
Cupboards.....
Book cases.....
Wainscoting.....
Clothes chute.....
Mantels.....

Additional Memoranda, Sketches, etc.

Handwriting practice lines consisting of 25 horizontal dashed lines.

Job No.....Date.....

For.....

The Complete Estimate

Material	Description	Est. Cost	
Excavating.....
Cistern and cesspool.....
Cementing.....
Stone work.....
Mason work.....
Chimneys.....
Stucco work.....
Lumber.....
Mill work.....
Buffets, sideboards.....
Mantels.....
Carpenter labor.....
Nails and hardware.....
Tin and sheet metal.....
Structural iron.....
Lath and plastering.....
Plumbing and sewer.....
Gas fitting.....
Electric wiring.....
Terra cotta.....
Tile floors.....
Roofing.....
Painting.....
Heating Plant.....
Incidentals, 5%.....
Total estimate.....

Job No.....Date.....

For.....

Masonry

Excavating, Cu. Yds.....

Main footings, Cu. Ft.....

Other wall footings.....

Chimney and pier footings.....

Main wall dimensions.....

Face wall dimensions.....

Other walls, dimensions.....

Chimneys, lineal Ft.....

Chimney caps.....

Cement floors, Sq. Ft.....

Cement steps, number of.....

Door sills.....

Window sills.....

Coping, lineal Ft.....

Catch basins.....

Cesspools.....

Stucco plaster, Sq. Yds.....

Plastering, Sq. Yds.....

Carpentry

Size of plan.....

Lineal Ft. around plan.....

Square Ft., first floor.....

Square Ft., second floor.....

Square Ft., attic floor.....

Outside wall, Sq. Ft.....

Deck roofs, Sq. Ft.....

Additional Memoranda, Sketches, etc.

Handwriting practice lines consisting of horizontal dashed lines.

Bay roofs, Sq. Ft.....

Porch roofs, Sq. Ft.....

Front porch, size.....

Other porches.....

Porch columns, front.....

Other porch columns.....

Porch newels, number.....

Rail, lineal Ft.....

Balusters, size and number.....

Lattice.....

Steps.....

Outside base, Lin. Ft.....

Corner boards, Lin. Ft.....

Belt course, Lin. Ft.....

Main cornice, Lin. Ft.....

Dormer cornice, Lin. Ft.....

Bay window cornice, Lin. Ft.....

Porch cornice, Lin. Ft.....

Verge boards, Lin. Ft.....

Brackets, gable, number.....

Brackets, bay.....

Cellar window frame.....

Outside cellar door frames.....

Inside cellar door frames.....

Outside flap doors.....

Cellar steps, outside.....

Cellar steps, inside.....

Window frames.....

Sash frames.....

Attic frames.....

Additional Memoranda, Sketches, etc.

Handwriting practice lines consisting of multiple horizontal dashed lines across the page.

Outside door frames.....
Main doors.....
Mirror doors.....
Closet doors.....
Sliding doors.....
Folding doors.....
Attic doors.....
Cased openings.....
Collonade openings.....
Inside base, Lin. Ft.....
Picture molding.....
Plate rail.....
Chair rail.....
Room cornice.....
Beam ceiling.....
Panels.....
Seats.....
Main stairs.....
Rear stairs.....
Attic stairs.....
Cellar stairs.....
Medicine cabinets.....
China closets.....
Linen closet.....
Pantry cases.....
Flour bins.....
Cupboards.....
Book cases.....
Wainscoting.....
Clothes chute.....
Mantels.....

Additional Memoranda, Sketches, etc.

Handwriting practice lines consisting of 20 horizontal dashed lines.

Job No. _____ Date _____

For _____

The Complete Estimate

Material	Description	Est. Cost	
Excavating.....	_____	_____	_____
Cistern and cesspool.	_____	_____	_____
Cementing.....	_____	_____	_____
Stone work.....	_____	_____	_____
Mason work.....	_____	_____	_____
Chimneys.....	_____	_____	_____
Stucco work.....	_____	_____	_____
Lumber.....	_____	_____	_____
Mill work.....	_____	_____	_____
Buffets, sideboards.	_____	_____	_____
Mantels.....	_____	_____	_____
Carpenter labor....	_____	_____	_____
Nails and hardware.	_____	_____	_____
Tin and sheet metal.	_____	_____	_____
Structural iron....	_____	_____	_____
Lath and plastering.	_____	_____	_____
Plumbing and sewer.	_____	_____	_____
Gas fitting.....	_____	_____	_____
Electric wiring....	_____	_____	_____
Terra cotta.....	_____	_____	_____
Tile floors.....	_____	_____	_____
Roofing.....	_____	_____	_____
Painting.....	_____	_____	_____
Heating Plant.....	_____	_____	_____
Incidentals, 5%....	_____	_____	_____
Total estimate...	_____	_____	_____

Job No.....Date.....

For.....

Masonry

Excavating, Cu. Yds.....

Main footings, Cu. Ft.....

Other wall footings.....

Chimney and pier footings.....

Main wall dimensions.....

Face wall dimensions.....

Other walls, dimensions.....

Chimneys, lineal Ft.....

Chimney cas.....

Cement floors, Sq. Ft.....

Cement steps, number of.....

Door sills.....

Window sills.....

Coping, lineal Ft.....

Catch basins

Cesspools.....

Stucco plaster, Sq. Yds.....

Plastering, Sq. Yds.....

Carpentry

Size of plan.....

Lineal Ft. around plan.....

Square Ft., first floor.....

Square Ft., second floor.....

Square Ft., attic floor.....

Outside wall, Sq. Ft.....

Deck roofs, Sq. Ft.....

Additional Memoranda, Sketches, etc.

A series of horizontal dashed lines for writing.

Bay roofs, Sq. Ft.....
Porch roofs, Sq. Ft.....
Front porch, size.....
Other porches.....
Porch columns, front.....
Other porch columns.....
Porch newels, number.....
Rail, lineal Ft.....
Balusters, size and number.....
Lattice.....
Steps.....
Outside base, Lin. Ft.....
Corner boards, Lin. Ft.....
Belt course, Lin. Ft.....
Main cornice, Lin. Ft.....
Dormer cornice, Lin. Ft.....
Bay window cornice, Lin. Ft.....
Porch cornice, Lin. Ft.....
Verge boards, Lin. Ft.....
Brackets, gable, number.....
Brackets, bay.....
Cellar window frame.....
Outside cellar door frames.....
Inside cellar door frames.....
Outside flap doors.....
Cellar steps, outside.....
Cellar steps, inside.....
Window frames.....
Sash frames.....
Attic frames.....

Additional Memoranda, Sketches, etc.

A series of horizontal dashed lines for writing.

Outside door frames.....
Main doors.....
Mirror doors.....
Closet doors.....
Sliding doors.....
Folding doors.....
Attic doors.....
Cased openings.....
Collonade openings.....
Inside base, Lin. Ft.....
Picture molding.....
Plate rail.....
Chair rail.....
Room cornice.....
Beam ceiling.....
Panels.....
Seats.....
Main stairs.....
Rear stairs.....
Attic stairs.....
Cellar stairs.....
Medicine cabinets.....
China closets.....
Linen closet.....
Pantry cases.....
Flour bins.....
Cupboards.....
Book cases.....
Wainscoting.....
Clothes chute.....
Mantels.....

Additional Memoranda, Sketches, etc.

Handwriting practice lines consisting of 20 horizontal dashed lines.

Job No. Date

For

The Complete Estimate

Material	Description	Est. Cost	
Excavating
Cistern and cesspool.
Cementing.....
Stone work.....
Mason work
Chimneys
Stucco work.....
Lumber
Mill work
Buffets, sideboards
Mantels.....
Carpenter labor.....
Nails and hardware.
Tin and sheet metal.
Structural iron.....
Lath and plastering
Plumbing and sewer.
Gas fitting
Electric wiring
Terra cotta.....
Tile floors.....
Roofing.....
Painting.....
Heating Plant.....
Incidentals, 5%.....
Total estimate

Job No.....Date.....

For.....

Masonry

Excavating, Cu. Yds.....

Main footings, Cu. Ft.....

Other wall footings.....

Chimney and pier footings.....

Main wall dimensions.....

Face wall dimensions.....

Other walls, dimensions.....

Chimneys, lineal Ft.....

Chimney cas.....

Cement floors, Sq. Ft.....

Cement steps, number of.....

Door sills.....

Window sills.....

Coping, lineal Ft.....

Catch basins

Cesspools.....

Stucco plaster, Sq. Yds.....

Plastering, Sq. Yds.....

Carpentry

Size of plan.....

Lineal Ft. around plan.....

Square Ft., first floor.....

Square Ft., second floor.....

Square Ft., attic floor.....

Outside wall, Sq. Ft.....

Deck roofs, Sq. Ft.....

Additional Memoranda, Sketches, etc.

Bay roofs, Sq. Ft.....

Porch roofs, Sq. Ft.....

Front porch, size.....

Other porches.....

Porch columns, front.....

Other porch columns.....

Porch newels, number.....

Rail, lineal Ft.....

Balusters, size and number.....

Lattice.....

Steps.....

Outside base, Lin. Ft.....

Corner boards, Lin. Ft.....

Belt course, Lin. Ft.....

Main cornice, Lin. Ft.....

Dormer cornice, Lin. Ft.....

Bay window cornice, Lin. Ft.....

Porch cornice, Lin. Ft.....

Verge boards, Lin. Ft.....

Brackets, gable, number.....

Brackets, bay.....

Cellar window frame.....

Outside cellar door frames.....

Inside cellar door frames.....

Outside flap doors.....

Cellar steps, outside.....

Cellar steps, inside.....

Window frames.....

Sash frames.....

Attic frames.....

Additional Memoranda, Sketches, etc.

A series of horizontal dashed lines for writing.

Outside door frames.....
Main doors.....
Mirror doors.....
Closet doors.....
Sliding doors.....
Folding doors.....
Attic doors.....
Cased openings.....
Collonade openings.....
Inside base, Lin. Ft.....
Picture molding.....
Plate rail.....
Chair rail.....
Room cornice.....
Beam ceiling.....
Panels.....
Seats.....
Main stairs.....
Rear stairs.....
Attic stairs.....
Cellar stairs.....
Medicine cabinets.....
China closets.....
Linen closet.....
Pantry cases.....
Flour bins.....
Cupboards.....
Book cases.....
Wainscoting.....
Clothes chute.....
Mantels.....

Additional Memoranda, Sketches, etc.

A series of horizontal dashed lines for writing.

Job No. Date

For

The Complete Estimate

Material	Description	Est. Cost	
Excavating
Cistern and cesspool
Cementing
Stone work
Mason work
Chimneys
Stucco work
Lumber
Mill work
Buffets, sideboards
Mantels
Carpenter labor
Nails and hardware
Tin and sheet metal
Structural iron
Lath and plastering
Plumbing and sewer
Gas fitting
Electric wiring
Terra cotta
Tile floors
Roofing
Painting
Heating Plant
Incidentals, 5%
Total estimate

Job No. Date

For

Masonry

Excavating, Cu. Yds.

Main footings, Cu. Ft.

Other wall footings

Chimney and pier footings

Main wall dimensions

Face wall dimensions

Other walls, dimensions

Chimneys, lineal Ft.

Chimney cas.

Cement floors, Sq. Ft.

Cement steps, number of

Door sills

Window sills

Coping, lineal Ft.

Catch basins

Cesspools

Stucco plaster, Sq. Yds.

Plastering, Sq. Yds.

Carpentry

Size of plan

Lineal Ft. around plan

Square Ft., first floor

Square Ft., second floor

Square Ft., attic floor

Outside wall, Sq. Ft.

Deck roofs, Sq. Ft.

Additional Memoranda, Sketches, etc.

Bay roofs, Sq. Ft.....
Porch roofs, Sq. Ft.....
Front porch, size.....
Other porches.....
Porch columns, front.....
Other porch columns.....
Porch newels, number.....
Rail, lineal Ft.....
Balusters, size and number.....
Lattice.....
Steps.....
Outside base, Lin. Ft.....
Corner boards, Lin. Ft.....
Belt course, Lin. Ft.....
Main cornice, Lin. Ft.....
Dormer cornice, Lin. Ft.....
Bay window cornice, Lin. Ft.....
Porch cornice, Lin. Ft.....
Verge boards, Lin. Ft.....
Brackets, gable, number.....
Brackets, bay.....
Cellar window frame.....
Outside cellar door frames.....
Inside cellar door frames.....
Outside flap doors.....
Cellar steps, outside.....
Cellar steps, inside.....
Window frames.....
Sash frames.....
Attic frames.....

Additional Memoranda, Sketches, etc.

A series of horizontal dashed lines for writing.

Outside door frames.....
Main doors.....
Mirror doors.....
Closet doors.....
Sliding doors.....
Folding doors.....
Attic doors.....
Cased openings.....
Collonade openings.....
Inside base, Lin. Ft.....
Picture molding.....
Plate rail.....
Chair rail.....
Room cornice.....
Beam ceiling.....
Panels.....
Seats.....
Main stairs.....
Rear stairs.....
Attic stairs.....
Cellar stairs.....
Medicine cabinets.....
China closets.....
Linen closet.....
Pantry cases.....
Flour bins.....
Cupboards.....
Book cases.....
Wainscoting.....
Clothes chute.....
Mantels.....

Additional Memoranda, Sketches, etc.

A series of horizontal dashed lines for writing.

Job No. Date

For

The Complete Estimate

Material	Description	Est. Cost	
Excavating
Cistern and cesspool
Cementing
Stone work
Mason work
Chimneys
Stucco work
Lumber
Mill work
Buffets, sideboards
Mantels
Carpenter labor
Nails and hardware
Tin and sheet metal
Structural iron
Lath and plastering
Plumbing and sewer
Gas fitting
Electric wiring
Terra cotta
Tile floors
Roofing
Painting
Heating Plant
Incidentals, 5%
Total estimate

Job No. Date

For

Masonry

Excavating, Cu. Yds

Main footings, Cu. Ft

Other wall footings

Chimney and pier footings

Main wall dimensions

Face wall dimensions

Other walls, dimensions

Chimneys, lineal Ft.

Chimney cas

Cement floors, Sq. Ft.

Cement steps, number of

Door sills

Window sills

Coping, lineal Ft.

Catch basins

Cesspools

Stucco plaster, Sq. Yds.

Plastering, Sq. Yds

Carpentry

Size of plan

Lineal Ft. around plan

Square Ft., first floor

Square Ft., second floor

Square Ft., attic floor

Outside wall, Sq. Ft.

Deck roofs, Sq. Ft.

Additional Memoranda, Sketches, etc.

Bay roofs, Sq. Ft.....
Porch roofs, Sq. Ft.....
Front porch, size.....
Other porches.....
Porch columns, front.....
Other porch columns.....
Porch newels, number.....
Rail, lineal Ft.....
Balusters, size and number.....
Lattice.....
Steps.....
Outside base, Lin. Ft.....
Corner boards, Lin. Ft.....
Belt course, Lin. Ft.....
Main cornice, Lin. Ft.....
Dormer cornice, Lin. Ft.....
Bay window cornice, Lin. Ft.....
Porch cornice, Lin. Ft.....
Verge boards, Lin. Ft.....
Brackets, gable, number.....
Brackets, bay.....
Cellar window frame.....
Outside cellar door frames.....
Inside cellar door frames.....
Outside flap doors.....
Cellar steps, outside.....
Cellar steps, inside.....
Window frames.....
Sash frames.....
Attic frames.....

Additional Memoranda, Sketches, etc.

A series of horizontal dashed lines for writing.

Outside door frames.....
Main doors.....
Mirror doors.....
Closet doors.....
Sliding doors.....
Folding doors.....
Attic doors.....
Cased openings.....
Collonade openings.....
Inside base, Lin. Ft.....
Picture molding.....
Plate rail.....
Chair rail.....
Room cornice.....
Beam ceiling.....
Panels.....
Seats.....
Main stairs.....
Rear stairs.....
Attic stairs.....
Cellar stairs.....
Medicine cabinets.....
China closets.....
Linen closet.....
Pantry cases.....
Flour bins.....
Cupboards.....
Book cases.....
Wainscoting.....
Clothes chute.....
Mantels.....

Additional Memoranda, Sketches, etc.

A series of horizontal dashed lines for writing.

Job No.

Date

For

The Complete Estimate

Material	Description	Est. Cost	
Excavating			
Cistern and cesspool.			
Cementing			
Stone work			
Mason work			
Chimneys			
Stucco work			
Lumber			
Mill work			
Buffets, sideboards .			
Mantels			
Carpenter labor			
Nails and hardware.			
Tin and sheet metal.			
Structural iron			
Lath and plastering .			
Plumbing and sewer.			
Gas fitting			
Electric wiring			
Terra cotta			
Tile floors			
Roofing			
Painting			
Heating Plant			
Incidentals, 5%			
Total estimate			

New Edition Just Published

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A testimonial of the Guide, more expressive than any we could offer, is the sale, which is now in the twenty-fourth thousand. The book sells because it is wanted, and is wanted because it is known to be one of the most practical, convenient and useful of the handbooks for the young carpenter and builder. The Guide was designed by a man who understood their needs and the knotty problems of the daily work are solved in the simplest and best ways.

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Just glance at this Partial List of Contents

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Hip and Valley Roofs.

Estimating Labor for Carpenter Work.

Short Cut in Estimating.

Practical Methods of Construction.

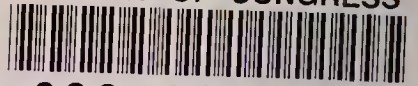
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